Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-11-19-42** **Date: 23-09-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-11-19-42 **Date: 24-09-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK D/EPMT-01/W O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification, IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg.Min)	348.6	225m^2/kg. Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10

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R. Rudraprasad

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-11-19-42**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Date: 20-10-21

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-11-19-42** **Date: 24-09-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-09-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383-2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-11-19-42** **Date: 24-09-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

• The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID	:	CP-2021-11-19-42
		Date: 22-09-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012
Date of test	:	21-09-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 04-10-21

Lab ID	:	CP-2021-11-19-42
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No.42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-21
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	28/09/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	100.9	22.5	21.0	26.2
2	Cover Slab-2	75.49	100.52	1.122	4475	104.3	23.3	21.7	27.1
3	Cover Slab-3	75.50	100.51	1.118	4476	100.5	22.5	20.9	26.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/10/2021

Lab ID	:	CP-2021-11-19-42
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-09-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	27/09/2021	04/10/2021	150.87 X 150.50 X 150.83	22705	8.840	427.8	18.8	18.7
2	Drain Bottom Slab Concrete	M20	27/09/2021	04/10/2021	150.38 X 150.80 X 151.88	22678	8.110	426.8	18.8	
3	Drain Bottom Slab Concrete	M20	27/09/2021	04/10/2021	149.72 X 151.72 X 151.67	22716	8.414	417.3	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/10/2021

Lab ID	:	CP-2021-11-19-42
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-10-21
Customer ID	:	Drain Side wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall Concrete	M20	30/09/2021	07/10/2021	149.04 X 150.91 X 149.82	22491	8.840	422.3	18.8	18.7
2	Drain Side wall Concrete	M20	30/09/2021	07/10/2021	149.64 X 150.57 X 149.96	22531	8.110	418.3	18.6	
3	Drain Side wall Concrete	M20	30/09/2021	07/10/2021	151.22 X 151.96 X 149.94	22980	8.414	433.4	18.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-11-19-42**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date: 06/11/2021

Date of test : 05/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/10/2021	05/11/2021	151.98 X 151.19 X 150.06	22979	8.607	775.9	33.8	33.3
2	Cement Concrete Pavement	M30	08/10/2021	05/11/2021	151.70 X 149.91 X 150.31	22742	8.091	740.9	32.6	
3	Cement Concrete Pavement	M30	08/10/2021	05/11/2021	151.48 X 150.02 X 149.92	22725	8.300	760.7	33.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2021

Lab ID	:	CP-2021-11-19-42
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	15/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/10/2021	15/10/2021	151.81 X 151.53 X 149.49	23004	8.199	640.8	27.9	27.3
2	Cement Concrete Pavement	M30	08/10/2021	15/10/2021	149.67 X 151.59 X 150.94	22688	8.001	611.1	26.9	
3	Cement Concrete Pavement	M30	08/10/2021	15/10/2021	150.13 X 151.36 X 150.94	22724	8.302	616.9	27.1	

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 06/11/2021

Lab ID	:	CP-2021-11-19-42
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction Of CC road at Chikkabommasandra old Village in ward no : 04"
Agency	:	Sri Vinayaka.K.R, No:42, 4th Main Road, Basaveshwaranagara , Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/134/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	05/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/10/2021	05/11/2021	149.60 X 151.62 X 150.84	22682	8.607	751.9	33.1	33.2
2	Cement Concrete Pavement	M30	08/10/2021	05/11/2021	149.18 X 150.15 X 150.92	22399	8.091	729.8	32.6	
3	Cement Concrete Pavement	M30	08/10/2021	05/11/2021	149.74 X 151.36 X 149.57	22664	8.300	768.8	33.9	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-1೦೯

Page 1/1
****End of Report****

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

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